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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/579,474	03/07/2007	Alain Rolland	403700/WEINSTEIN	7052
	7590 05/17/2014 C& MAYER, LTD	EXAMINER		
700 THIRTEEN		TRINH, TAN H		
SUITE 300 WASHINGTON, DC 20005-3960			ART UNIT	PAPER NUMBER
			2618	
			NOTIFICATION DATE	DELIVERY MODE
			05/17/2010	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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	Application No.	Applicant(s)			
	10/579,474	ROLLAND ET AL.			
Office Action Summary	Examiner	Art Unit			
	TAN TRINH	2618			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on <u>09 Fe</u> This action is FINAL . 2b)⊠ This Since this application is in condition for allowant closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 1-14 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-14 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examiner 10) The drawing(s) filed on 17 November 2004 is/are	vn from consideration. relection requirement. r. re: a)⊠ accepted or b)⊡ object	-			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-5 and 9 are rejected under 35 U.S.C. 102(b) as being anticipated by Schmutz (US Pub. No. 2001/0031624).

Regarding claim 1, Schmutz teaches a local communications network (fig. 1) providing communication between a mobile station (18) and a fixed radio frequency station (15) of the local communications network (15 of system 10), a relay antenna (11 and 13 of repeater 12) and wireless radio frequency transmission link (19) which links the antenna (13 to 14) to the fixed radio frequency station (15) without any wired connection intervening between the relay antenna (11 and 13 of repeater 12) and the fixed radio frequency station (15) (fig. 1, page 2, par [0020-0021]). In this case the fixed radio frequency station (15) is BTS base station and connecting these signals to the Public Switched Telephone Network (PSTN) through mobile telephone exchange (16) on the system (10) that is the fixed radio frequency station of the local communications network (see fig. 1 and , page 2, par [0020-0021]).

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Regarding claim 2, Schmutz teaches the wireless radio frequency transmission link includes means for transmitting and receiving signals at frequencies between 400 MHz and 18 GHz (see PCS and standard wireless telephony GSM, page 2, par [19 and 0026]).

In this case, Schmutz teaches the GSM frequency ranges GSM networks operate in a number of different frequency ranges (separated into GSM frequency ranges for 2G and UMTS frequency bands for 3G). Most 2G GSM networks operate in the 900 MHz or 1800 MHz bands. Some countries in the Americas (including Canada and the United States) use the 850 MHz and 1900 MHz bands because the 900 and 1800 MHz frequency bands were already allocated. Most 3G GSM networks in Europe operate in the 2100 MHz frequency band. The rarer 400 and 450 MHz frequency bands are assigned in some countries where these frequencies were previously used for first-generation systems.GSM-900 uses 890-915 MHz to send information from the mobile station to the base station (uplink) and 935–960 MHz for the other direction (downlink), providing 125 RF channels (channel numbers 1 to 124) spaced at 200 kHz. Duplex spacing of 45 MHz is used. In some countries the GSM-900 band has been extended to cover a larger frequency range. This 'extended GSM', E-GSM, uses 880–915 MHz (uplink) and 925–960 MHz (downlink), adding 50 channels (channel numbers 975 to 1023 and 0) to the original GSM-900 band. The transmission power in the handset is limited to a maximum of 2 watts in GSM850/900 and 1 watt in GSM1800/1900. So that Schmutz teaches the limitation of the frequency range between 400MHZ to 18GHZ may be at 1800 MHz bands.

Regarding claim 3, Schmutz teaches the wireless radio frequency transmission link (19) includes a first electronic device (12) associated with the relay antenna (13 of 12) and a second

electronic device (14 of 15) associated with the fixed radio frequency station (15) and a wireless transmission channel (19) these connecting the first (12) and second electronic devices (15) (see fig. 1).

Regarding claim 4, Schmutz teaches the first electronic device (12) includes means for analog/digital (A/D 39C) conversion and the second electronic device (15) includes means for digital/analog conversion (D/A 38C) (fig. 2-3, page 2-3, par [0026-0027 and 0031-0035]).

Regarding claim 5, Schmutz teaches the first (12) and second electronic devices (15) include means for compressing *or* decompressing the signal to be transmitted (page 1, par [0006]).

Regarding claim 9, Schmutz teaches the first (12) and second electronic devices (15) include means for compressing or decompressing the signal to be transmitted (page 1, par [0006]).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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4. Claim 6-8, 10-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schmutz (US Pub. No. 2001/0031624) in view of Baker (US Pub. No. 2003/0232595).

Regarding claim 6 and 10-11, Schmutz teaches the relay antenna (11 and 13 of repeater 12) multiband antenna (13 and 14), wherein the first electronic device (12) and BTS (15) (see fig. 1, repeater 12 with translator directional antennas 13, page 2, par [0020-0021]). But Schmutz does not mention the multiband antenna includes means for identifying a channel on which signals to be transmitted are received by the antenna.

However, Baker teaches the repeater (110 or 200) with multi-band antenna (212) includes for identifying a channel on which signals to be transmitted are received by the antenna (fig. 1-3 and 6, page 4, par [0044-0050]).

Therefore, it would have been obvious to one of ordinary skill in the art at the time invention was made to modify above teaching of Schmutz with Baker, in order to provide amplifier unit and repeater configured to identify a frequency associated with incoming wireless signal (see suggested by Baker on page 4, par [0050]).

Regarding claims 7 and 12-14, Baker teaches the first electronic device (110 or 200) includes means for verifying the presence of fixed radio frequency station for functioning at a frequency at which signals to be transmitted are received by the relay antenna (212, 214 and 206, 208) (see fig. 2-3 and 6, page 4-5, par [0044, and [0048-0057], and page 8, par [0106-0107]). In this case, the repeater with amplifier to configured to verified the incoming signal and to compensate for a loss in signal strength with the function and calculated value, for transmitting and amplifier to the level that detected incoming signal and converted and transmitted.

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Regarding claim 8, Baker teaches including a plurality of fixed radio frequency several stations, each station functioning at a predetermined frequency and communicating with a multiband antenna (212, 206 and 208) (fig. 1-3 and 5-6, page 2-5, par [0024, 0044, 0059], and page 7, par [0084], page 8, par [0106-0108]).

Response to Arguments

5. Applicant's arguments filed 02-09-2010 have been fully considered but they are not persuasive.

Regarding claim 1, Applicant argues that the reference of Schmutz is teaching on fig. 1, The figure 1 depicts a system in which cellular telephones (18) repeater stations 12 and communicate over respective wireless links 19 with respective base transceiver stations 15.

Those base transceiver stations all communicate with a single fixed base station controller 17 over wired, i.e., coaxial cable, connections and that is an intervening wired connection between the fixed base station and the relay antennas.

However, the examiner does not agree, since Schmutz teaches the base transceiver stations (15) and fixed base station controller (17) is the system (10) of a local communications network (fig. 1), providing communication between a mobile station (18) and a fixed radio frequency station (15) of the local communications network (15 of system 10), a relay antenna (11 and 13 of repeater 12) and wireless radio frequency transmission link (19) which links the antenna (13 to 14) to the fixed radio frequency station (15) without any wired connection intervening between the relay antenna (11 and 13 of repeater 12) and the fixed radio frequency

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station (15) (fig. 1, page 2, par [0020-0021]). In this case the fixed radio frequency station (15) is BTS base station and connecting these signals to the Public Switched Telephone Network (PSTN) through mobile telephone exchange (16) on the system (10) that is the fixed radio frequency station of the local communications network (see fig. 1 and , page 2, par [0020-0021]), the base transceiver stations (15) or base station (BS-15) of the system (10) is the local communications network fixed station, and the wireless links 19 with respective base transceiver stations 15 to repeater antenna (relay antenna) is wireless link that without any wired connection intervening between the relay antenna (11 and 13 of repeater 12) and the fixed radio frequency station (15 of BS system 10).

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., relay antenna is a base transceiver stations BTS (BTS repeater) and base station controller (BSC) or Mobile Switching Center (MSC), and providing communication between BTS and BSC or MSC without wired or cables between this network) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Therefore the reference of Schmutz is teaching the limitation of claim.

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231

or faxed to:

(571) 273-8300, (for Technology Center 2600 only)

Hand-delivered responses should be brought to the Customer Service Window (now located at the Randolph Building, 401 Dulany Street, Alexandria, VA 22314).

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tan Trinh whose telephone number is (571) 272-7888. The examiner can normally be reached on Monday-Friday from 9:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiners supervisor, Anderson, Matthew D., can be reached at (571) 272-4177.

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The fax phone number for the organization where this application or proceeding is

assigned is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the Technology Center 2600 Customer Service Office whose telephone

number is (703) 306-0377.

9. Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tan H. Trinh

Division 2618

May 9, 2010

/TAN TRINH/

Primary Examiner, Art Unit 2618